



JPW

PATENT APPLICATION

THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Naoki HAGAI et al.

Application No.: 10/608,477

Filed: June 30, 2003

Docket No.: 116403

For: MULTILEVEL VALUE OUTPUT DEVICE

LETTER TO THE OFFICIAL DRAFTSPERSON

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Please substitute the attached 11 sheets of formal drawings depicting Figures 1-10 for the corresponding drawings filed with the application.

Respectfully submitted,

James A. Oliff
Registration No. 27,075

Eric D. Morehouse
Registration No. 38,565

JAO:EDM/crh

Date: December 27, 2004

OLIFF & BERRIDGE, PLC
P.O. Box 19928
Alexandria, Virginia 22320
Telephone: (703) 836-6400

<p>DEPOSIT ACCOUNT USE AUTHORIZATION Please grant any extension necessary for entry; Charge any fee due to our Deposit Account No. 15-0461</p>

FIG.1

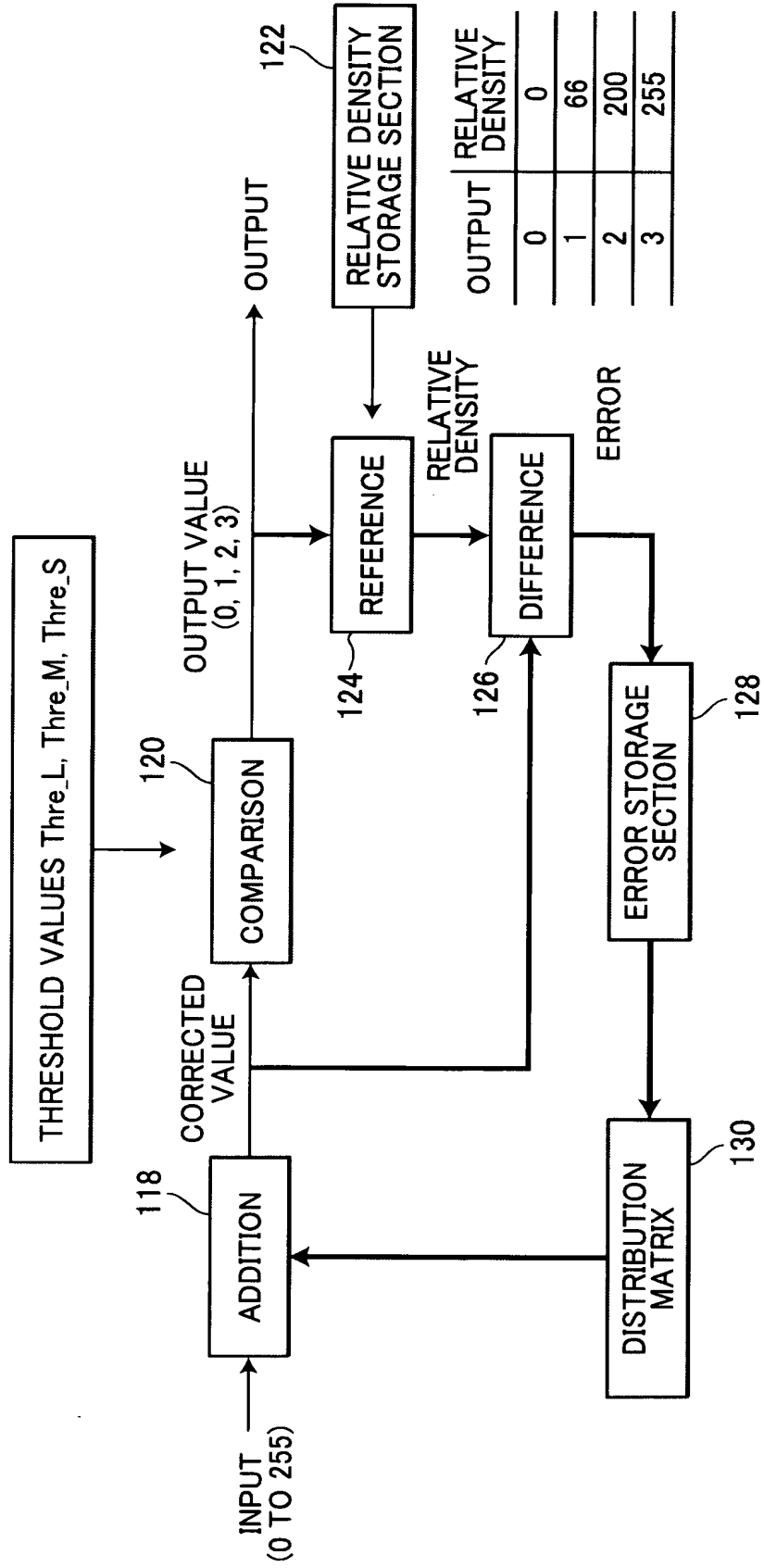
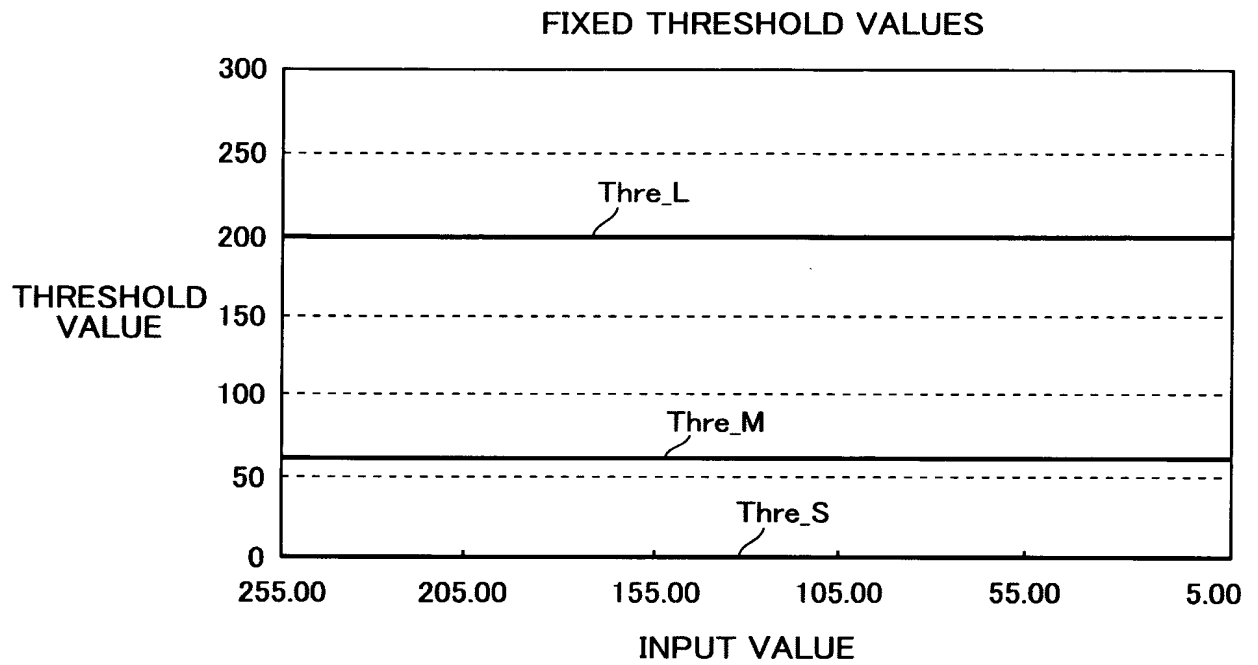
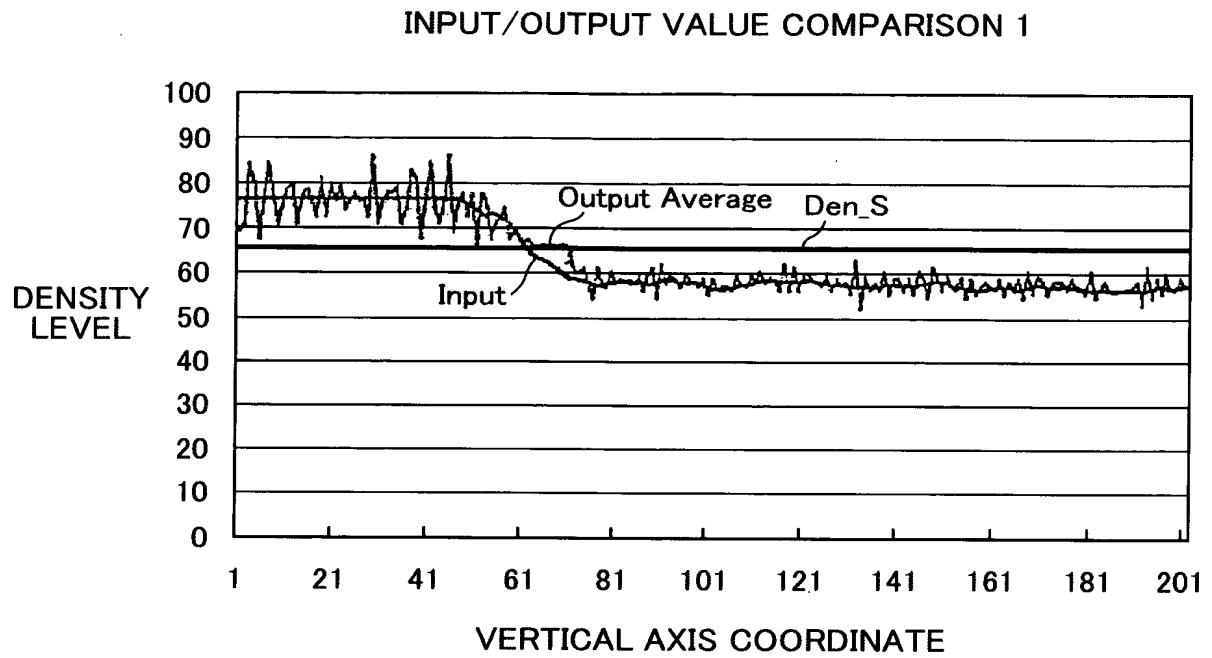


FIG.2



Thre_L : LARGE DOT THRESHOLD VALUE
Thre_M : MEDIUM DOT THRESHOLD VALUE
Thre_S : SMALL DOT THRESHOLD VALUE

FIG.3



Den_S : RELATIVE DENSITY VALUE

Input : INPUT VALUE

Output Average : Average of OUTPUT DENSITY VALUES

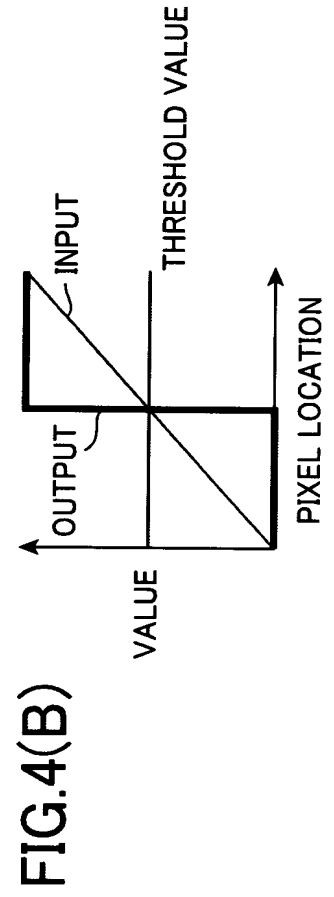
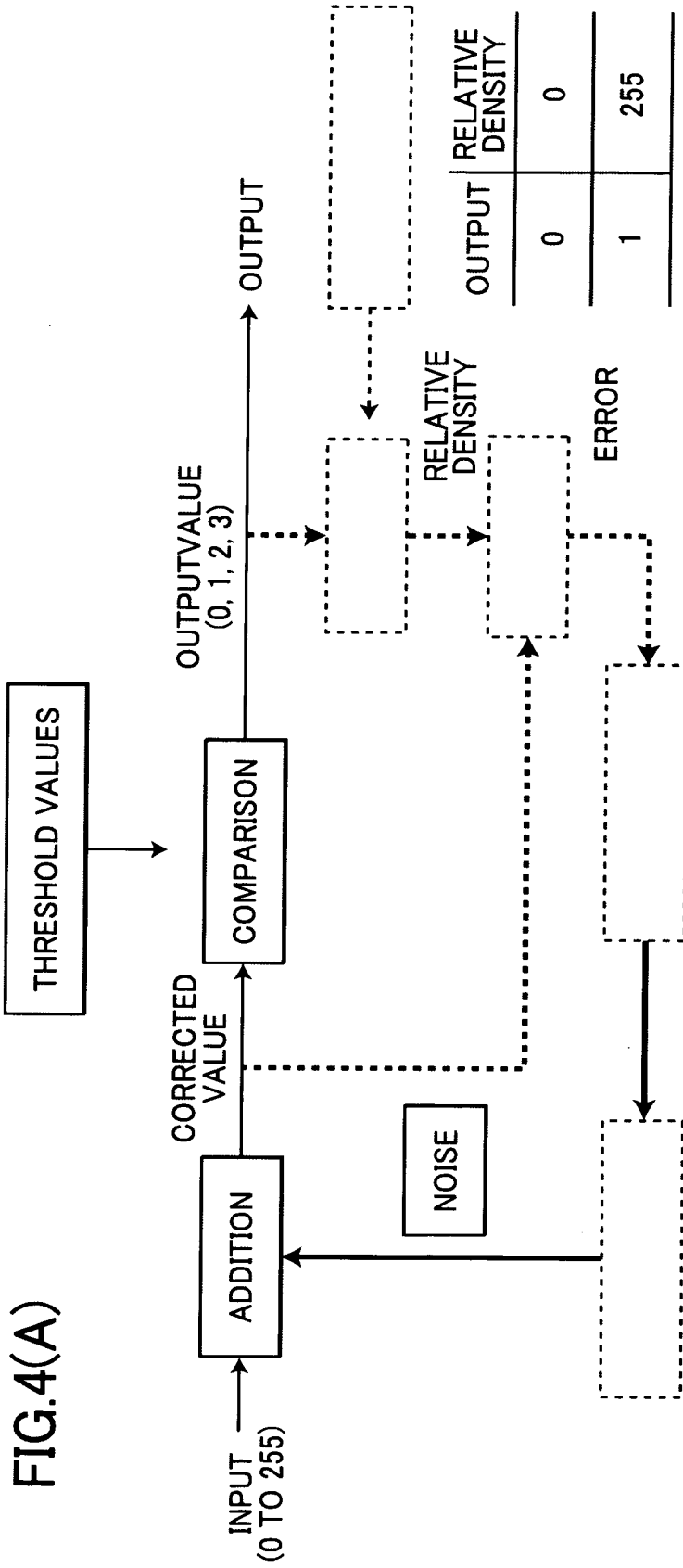


FIG.5(A)

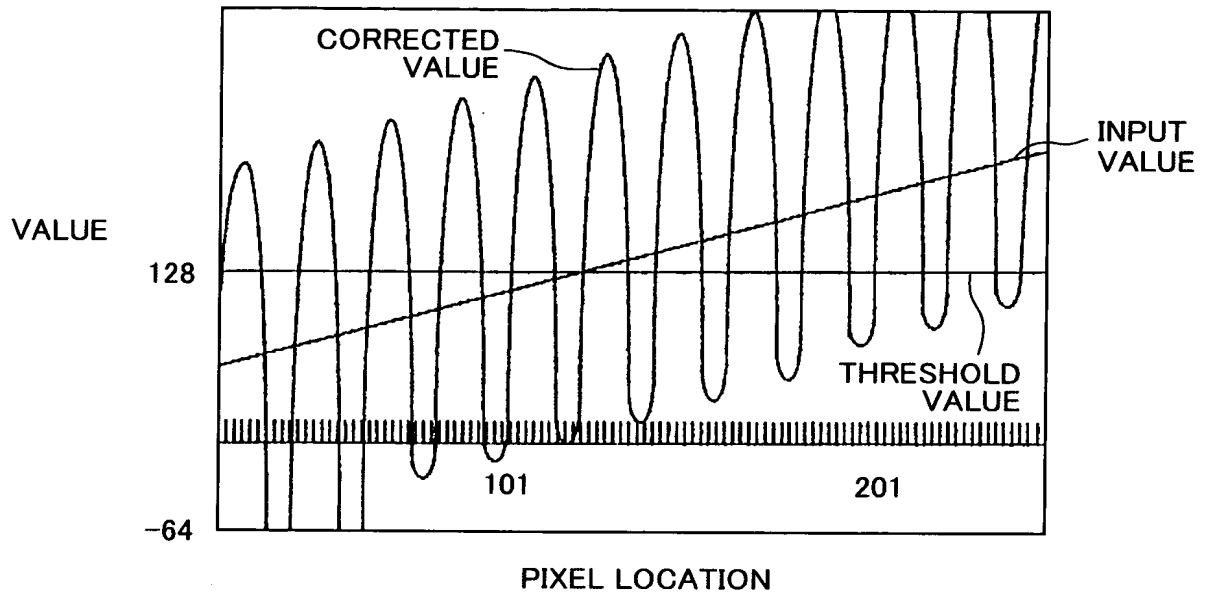


FIG.5(B)

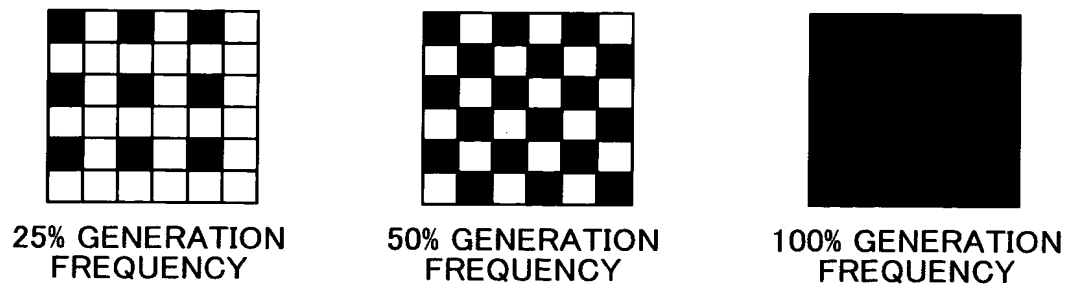


FIG.6(A)

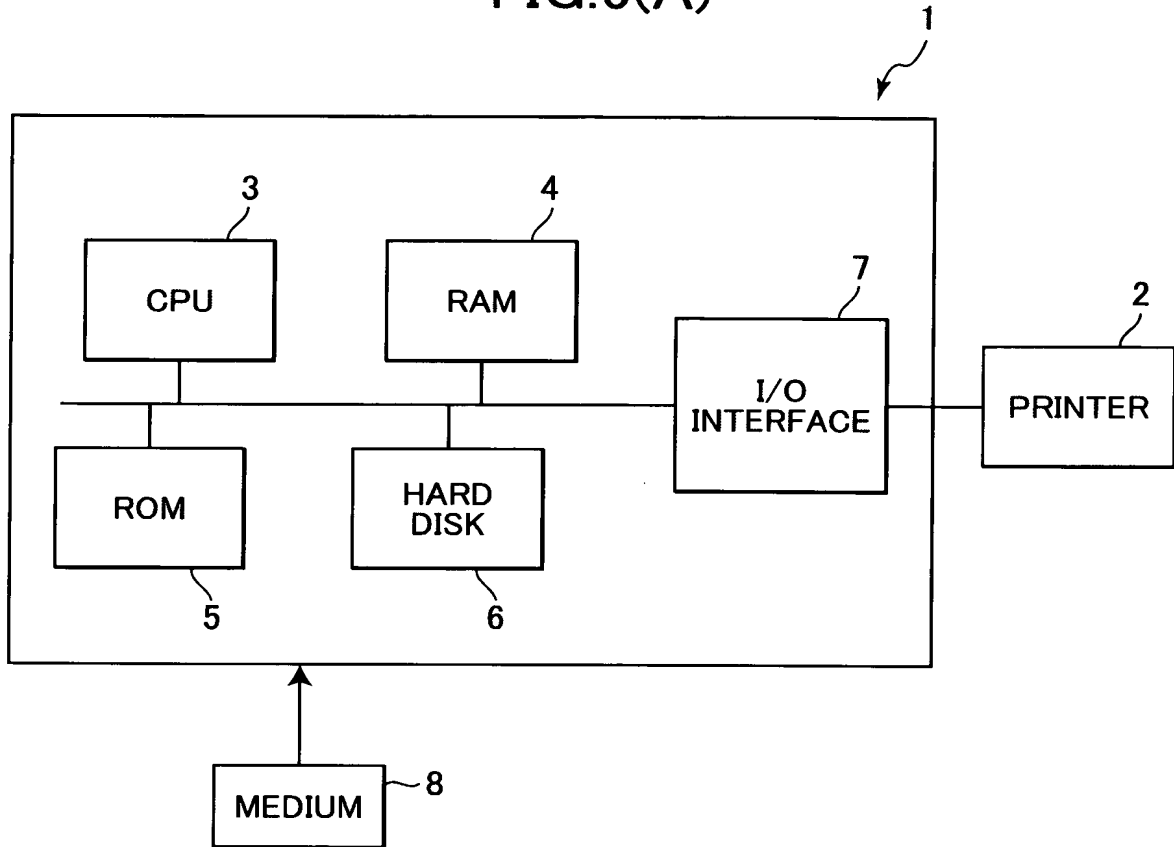


FIG.6(C)

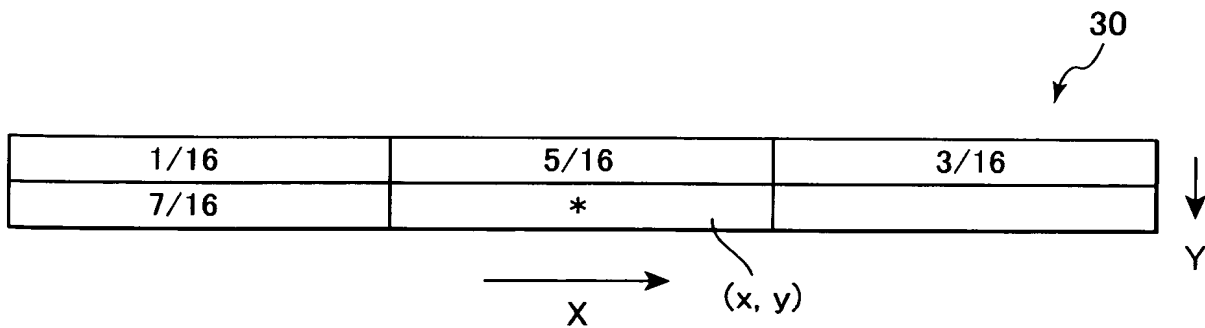


FIG.6(B)

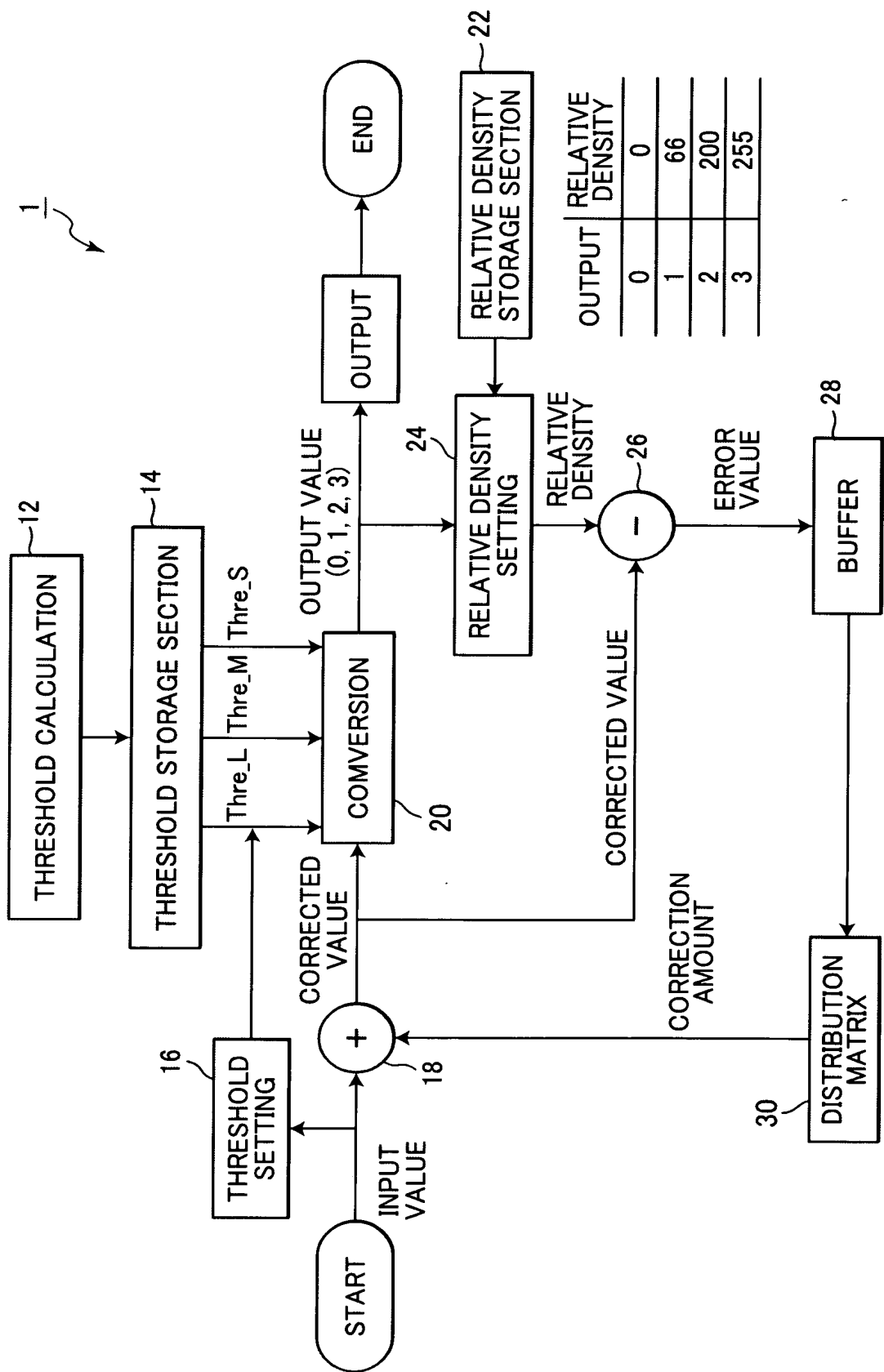


FIG.7

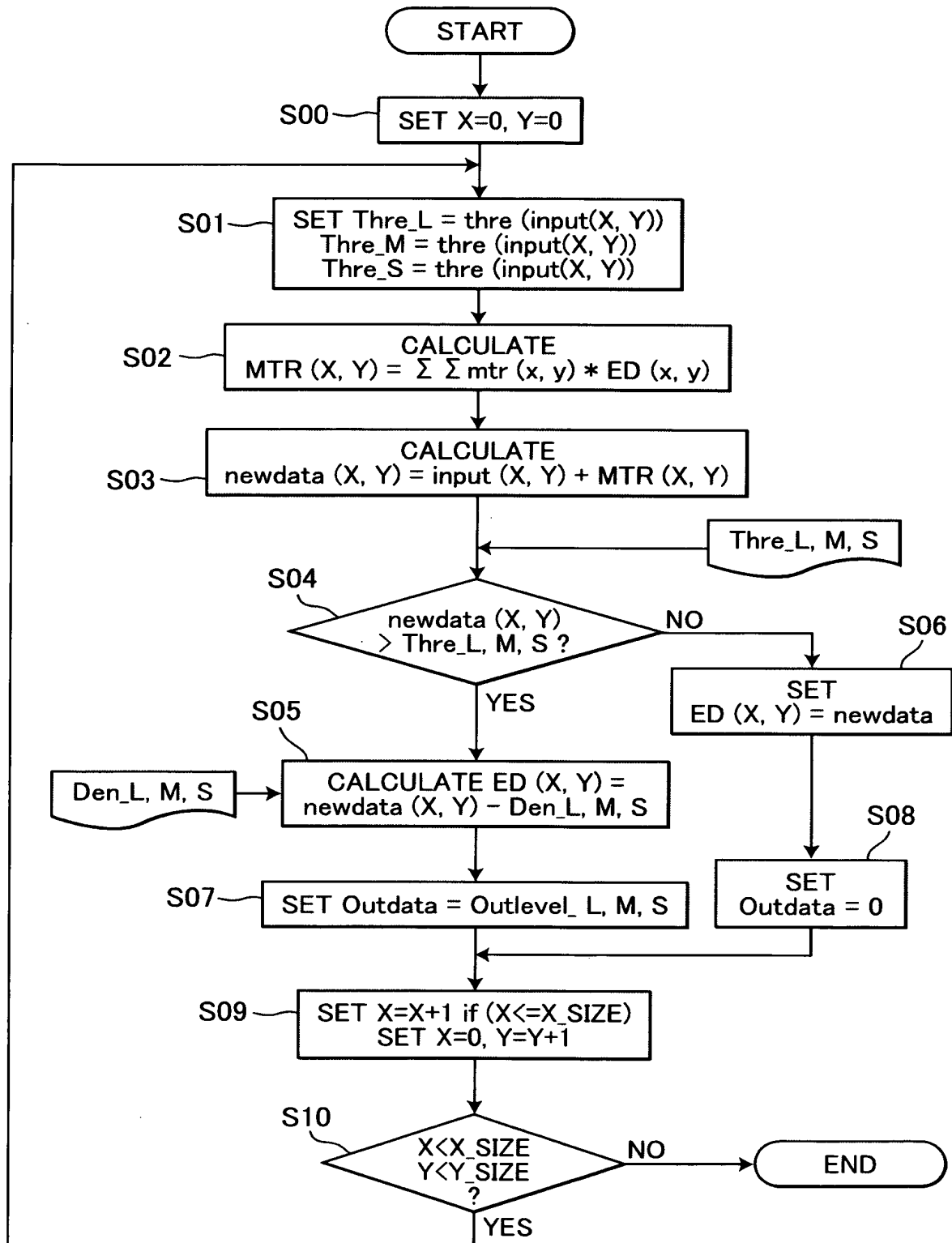
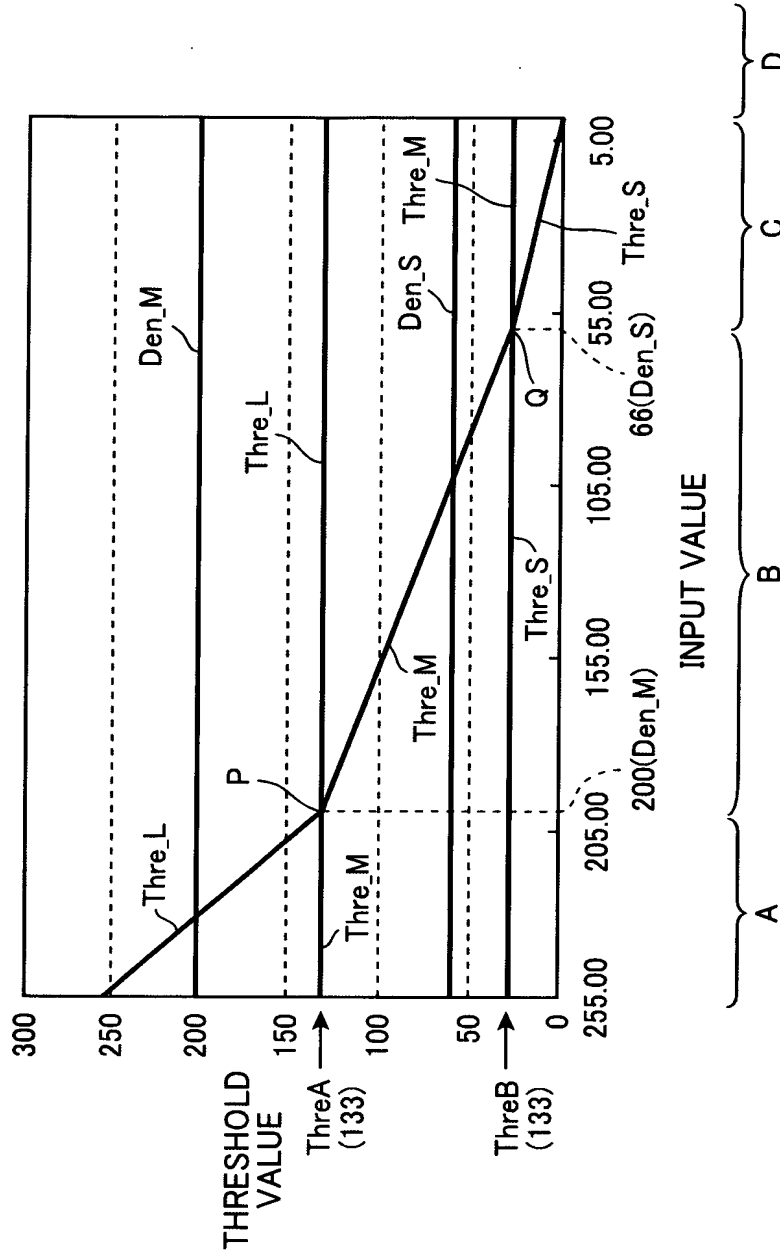


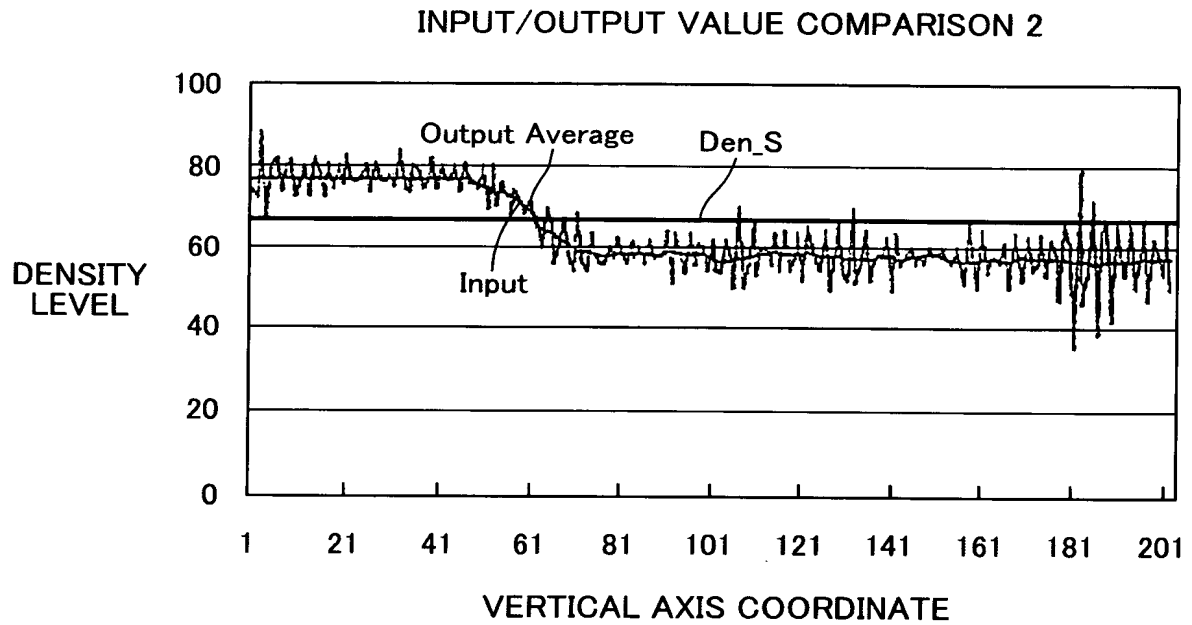
FIG.8

VARIABLE THRESHOLD VALUES



Thre_L : LARGE DOT THRESHOLD VALUE
 Thre_M : MEDIUM DOT THRESHOLD VALUE
 Thre_S : SMALL DOT THRESHOLD VALUE
 Den_M : RELATIVE DENSITY (MEDIUM)
 Den_S : RELATIVE DENSITY (SMALL)

FIG.9



Den_S : RELATIVE DENSITY VALUE

Input : INPUT VALUE

Output Average : Average of OUTPUT DENSITY VALUE

FIG.10

